

**8th International Workshop on Advances in the Molecular Pharmacology and Therapeutics of
Bone and other Musculoskeletal Diseases/
Cancer and Bone Society 2018 Meeting**

St Catherine's College, Oxford

30 June – 3 July 2018

Saturday 30 June

MolPharm

From 09:30	Registration (Porters' Lodge)
10:00-10:15	Welcome and introduction
10:15-12:55	Bone biology and update on existing and emerging therapies: similarities and differences in mechanisms of action Chairs: Juliet Compston (Cambridge, UK) / Adolfo Diez-Perez (Barcelona, Spain)
10:15	Hot topics in bone biology and explaining how bone active drugs work Roland Baron (Boston, USA)
10:45	Overview of current treatments and the potential role of combination therapies in osteoporosis Bente Langdahl (Aarhus, Denmark)
11:15	Coffee
	Update on existing and emerging therapies Chairs: Núria Guañabens (Barcelona, Spain) / tbc
11:45	Lessons from SCOOP Eugene McCloskey (Sheffield, UK)
12:00	Optimising the use of zoledronate Ian Reid (Auckland, New Zealand)
12:15	Update on teraparotide and the VERO Study Fernando Marin (Eli Lilly, Madrid, Spain)
12:35	Non-invasive imaging of therapeutic responses in bone Ken Poole (Cambridge, UK)
12:55	Lunch
14:00-15:15	Hot topics in rare diseases: fibrodysplasia ossificans progressiva (FOP) and heterotopic ossification Chairs: Coen Netelenbos (Amsterdam, Netherlands) / tbc
14:00	Understanding fibrodysplasia ossificans progressiva (FOP): genetics and biological

	consequences Eileen Shore (Philadelphia, USA)
14:15	Receptor mutations and activin action Aris Economides (Regeneron, Tarrytown, USA)
14:30	Heterotopic ossification: fibrodysplasia ossificans progressive, multiple osteochondromas and potential treatments Maurizio Pacifici (Philadelphia, USA)
15:00	Clinical trials in rare bone diseases: challenges and revelations Richard Keen (London, UK)
15:15	<i>Tea</i>
15:35-16:45	Hot topics in rare diseases, continued Chairs: Kassim Javaid (Oxford, UK) / Raj Thakker (Oxford, UK)
15:35	Treating inherited disorders of phosphate metabolism: FGF23 and other targets Tom Carpenter (New Haven, USA)
15:55	Treating skeletal dysplasia and achondroplasia Melita Irving (London, UK)
16:10	New approaches to treating disorders of the calcium sensing receptor Fadil Hannan (Liverpool, UK)
16:25	The challenges and opportunities in treating rare skeletal diseases Matt Warman (Boston, USA)
16:45	Break
16:55-18:30	Paget's Disease Chairs: Roger Francis (Newcastle upon Tyne, UK) / Stephen Tuck (Middlesbrough, UK)
16:55	The genetics and pathophysiology of Paget's disease Luigi Gennari (Sienna, Italy)
17:20	Guidelines and management of Paget's disease Stuart Ralston (Edinburgh, UK)
17:50	Secular changes in Paget's disease: lessons from Medieval times Robert Layfield (Nottingham, UK)
18:05	Student presentations
18.30	<i>Close</i>
19:00	<i>Dinner</i>

Sunday 1 July

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08:45-10:25	Musculoskeletal ageing and frailty Chairs: James Edwards (Oxford, UK) / Tash Masud (Nottingham UK)
08:45	Defining the scope and opportunities Cyrus Cooper (Southampton and Oxford, UK)
09:05	Biological mechanisms of ageing and senescence Lynne Cox (Oxford, UK)
09:25	The role of senescence in bone biology Sundeeep Khosla (Rochester, USA)
09:45	Therapeutic approaches in the elderly and frail Gary Krishnan (Eli Lilly, Indianapolis, USA)
10:05	Effects of bone active drugs on health and life span John Eisman (Sydney, Australia)
10:25	<i>Coffee</i>
10:45-11:30	Musculoskeletal ageing and frailty cont. Chairs: tbc
10:45	Lessons from clinical trials Steven Cummings (San Francisco, USA)
11:05	Ageing and musculoskeletal function: an update on the work of the Centre for Musculoskeletal Ageing Research (CMAR) Janet Lord (Birmingham, UK)
11:30-12:45	New technologies Chairs: Duncan Bassett (London, UK) / Philippe Clézardin (Lyon, France)
11:30	Big Data: integrating omics and cohorts André Uitterlinden (Rotterdam, Netherlands)
12:00	Bone biomarkers Richard Eastell (Sheffield, UK)
12:20	Use of miRNAs in diagnosis Matthias Hackl (TAmiRNA, Austria)
12:45	<i>Lunch</i>
14:00-15:30	Approaches to connective tissue repair and regeneration Chairs: Andy Carr (Oxford, UK) / Eric Hesse (Hamburg, Germany)

14:00	Targeting musculoskeletal diseases and injuries to restore mobility Michaela Kneissel (Novartis, Basle, Switzerland)
14:30	Approaches to bone regeneration Frank Luyten (Leuven, Belgium)
15:00	BMPs and bone repair Slobodan Vukicevic (Zagreb, Croatia)
15:15	Clinical trials in degenerative disc disease Lovorka Grgurevic (Zagreb, Croatia) (tbc)
15:30	<i>Tea</i>
16:00- 17:20	Therapeutic advances in arthritis Chairs: tbc
16:00	Update on the pathogenesis of osteoarthritis and potential therapies Tonia Vincent (Oxford, UK)
16:20	Marrow lesions, pain and osteoarthritis Nidhi Sofat (London, UK)
16:40	Bisphosphonates in arthritis Erik Fink Eriksen (Oslo, Norway)
17:00	Epigenetics and osteoarthritis John Loughlin (Newcastle upon Tyne, UK)
17:20	Break
17:30-18:00	Keynote lecture Chairs: Gordon Duff (Oxford, UK) / John Potts (Boston, USA) Patients need new medicines: What are we doing about it? Chas Bountra (Oxford, UK)
18:00- 19:00	Poster viewing and welcome reception
19:00	<i>Dinner</i>

Monday 2 July

CABS

08:45-10:45	CABS Clinical 1 Chairs: Karthik Ramasamy (Oxford, UK) / David Roodman (Indianapolis, USA)
08:45	Cancer-induced bone loss Peyman Hadji (Frankfurt, Germany)
09:10	Prostate cancer bone mets Nicholas James (Birmingham, UK)
09:35	Myeloma bone disease Andy Chantry (Sheffield, UK)
10:00	Immunotherapy and cancer Paul Moss (Birmingham, UK) (tbc)
10:25	Oral communications (2 x 8 mins)
10:45	<i>Coffee</i>
11:15-12:45	CABS Clinical 2 Chairs: Rob Coleman (Sheffield, UK) / tbc
11:15	Title tbc Kathy Weilbaecher (St Louis, USA)
11:40	Lung cancer bone mets Sarah Danson (Sheffield, UK)
12:05	Sarcoma and bone tumours Dominique Heymann (Sheffield, UK)
12:30	Oral communications (2 x 8 mins)
12:45	<i>Lunch</i>
14:00-14:50	CABS Molecular and metabolic pathways Chairs: Rachele Johnson (Nashville, USA) / Udo Oppermann (Oxford, UK)
14:00	Marrow adiposity and metabolism in skeletal health Cliff Rosen (Maine, USA)
14:25	Inflammation and bone metastasis Laurie McCauley (Michigan, USA)
14:50	<i>Tea and posters</i>

15:10-16:10	Oral communications (7 x 8 mins) Chairs: tbc
16:15-17:00	Keynote lecture Chairs: tbc Historical perspective on cancer and bone Jack Martin (Melbourne, Australia)
17:30-19:00	New Investigator session
19:00	<i>Dinner</i>
20:15	<i>Walking tour: the University, book and film locations, historic pubs and their memorable patrons</i>

Tuesday 3 July

CABS

08:45-10:45	Physiological responses to cancer: pain and muscle Chairs: Chas Bountra (Oxford, UK) / Kathy Waelbaeher (St Louis, USA)
08:45	Understanding and treating bone and musculoskeletal pain Patrick Mantyh (Tucson, USA)
09:15	Pharmacology of bisphosphonates in pain Thomas Tzschentke (Grunenthal, Aachen, Germany)
09:30	Role of the GDNF Family Receptor GFR α 3 in joint pain Michael LaCroix-Fralish (Regeneron, Tarrytown, USA)
09:45	Skeletal pain, Radium-223 and bone metastases Oyvind Bruland (Oslo, Norway)
10:15	Cancer-associated muscle weakness Theresa Guise (Indianapolis, USA)
10:45	<i>Coffee</i>
11:15-12:45	CABS – Tumour-bone microenvironment Chairs: Dominique Heymann (Sheffield, UK) / tbc
11:15	Tumour-host interactions in metastasis Ilaria Malanchi (London, UK)
11:40	Impact of sympathetic nerves on bone metastasis Florent Elefteriou (Houston, USA)
12:05	Immune control of bone metastasis Belinda Parker (La Trobe, Australia)
12:30	Oral communications (2 x 8 mins)
12:45	<i>Lunch</i>
14:00-15:05	CABS: Advances in imaging and genomics in the bone marrow microenvironment Chairs: tbc / Penny Ottewell (Sheffield, UK)
14:00	Imaging in the bone marrow microenvironment Cristina Lo Celso (London, UK)
14:25	Single cell genomics in cancer Adam Mead (Oxford, UK)

14:50	Oral communications (2 x 8 mins)
15:05	Tea
15:30- 16:45	Epigenetic regulation in the tumour-bone microenvironment Chairs: Theresa Guise (Indianapolis, USA) / tbc
15:30	Epigenetic regulation in the tumour-bone microenvironment Udo Oppermann (Oxford, UK)
15:55	Epigenetic suppression in myeloma bone disease David Roodman (Indianapolis, USA)
16.20	Bisphosphonates for delivering drugs to bone Hal Ebetino (Rochester, USA)
16:45- 17:30	Keynote Lecture Chair: Claire Edwards (Oxford, UK) Myeloma: Past, present and future Gareth Morgan (Little Rock, USA)
19:00	<i>Dinner</i>

July 4th
Kennedy Institute
Musculoskeletal Research in Oxford